### REPLACEMENT SHEET WITH MARKINGS

### Fig. 1A

											•										
1	tga :	ctto	gatg	ıtaga	cctc	gacc	ttca	cagg	acte	ttca	ttgc	tggt	tggc	aatg	ATG M	TAT Y	CGG R	CCA P	GAT D	GTG V	73 +9
74	GTG V	AGG R	GCT A	AGG R	AAA K	AGA R	GTT V	TGT C	TGG W	GAA E	P	TGG W	GTT V	ATC	GGC	CTC	GTC V	ATC I	TTC F	ATA I	133 78
134 27	TCC	CTG L	ATT I	GTC V	CTG L	GCA A	GTG V	TGC C	ATT I	GGA G	CTC L	ACT T	CTŢ V	CAT H	TAT Y	GTG V	AGA R	TAT Y	AAT N	CAA Q	193 +356
194	AAG K	AAG K	ACC T	TAC Y	aat N	TAC Y	TAT Y	AGC S	ACA T	TTG L	TCA S	TTT F	ACA T	ACT T	GAC D	AAA K	CTA L	TAT Y	GCT A	GAG E	253 + 356 66
254 67	TTT F	GGC	AGA R	GAG E	GCT A	TCT S	AAC N	AAT N	TTT F	ACA T	GAA E	ATG M	AGC S	CAG Q	AGA R	CTT L	GAA E	TCA S	ATG M	GTG V	313 258
314 87	AAA K	AAT N	GCA A	F	TAT Y	AAA K	TCT S	CCA P	TTA L	AGG R	GAA E	GAA E	TTT F	GTC V	AAG K		CAG Q	GTT V	ATC I	AAG K	373 274 106
374 107	TTC	AGT S	CAA Q	CAG	AAG	CAT H	GGA G	GTG V	TTG L	GCT A	CÁT H	ATG M	CTG L	TTG L	ATT I	TGT C		TTT F	CAC H	TCT S	433 25.76
434 127	ACT T	GAC E	GAT D	P CCT	GAA E	ACT T	GTA V	GAT D	AAA K	ATI I	GTI V	CAA Q	CTT L	GTT V	TTA L	CAT	GAA E	AAG K	CTC L	CAA Q	4934 <del>38</del> 146
494 147	GAT D	GCT A	GTA V	GGA G	P	CCT P	AAA K	GTA V	GAT D	CCT P	' CAC	TCA S	GTT V	AAA K	ATT I	AAA K	AAA K	ATC	AAC N	AAG K	553 49 8 166
554 167	ACA T	GAA E	ACA T	GAC D	AGÇ S	TAT Y	CTA L	AAC N	CAT H	TGC C	TGC C	GGA G	ACA T	CGA R	AGA R	AGT S		ACT T	CTA L	]ggr g	613 5
614 187	CAG Q	AGT S	CTC L	AGG R 🛧	ATC I	GTT V	GGT G	GGG G	ÁCA T	GAA E	GTA V	GAA E	GAG E	GGT G	GAA E	TGG W	CCC P	TGG W	CAG Q	GCT A	673-101-66 206
674 207	AGC S	CTG L	CAG Q	TGG W	GAT D	GGG G	AGT S	CAT H	CGC R	TGT C	GGA G	GCA A	ACC T	TTA L	ATT I	AAT N	GCC A	ACA T	TGG W	CTT L	733 1076 226
734 227	GTG V	AGT S	GCT A	GCT A	CAC H	TGT C	TTT F	ACA T	ACA T	TAT Y	AAG K	AAC N	CCT P		AGA R	TGG W	ACT T	GCT A	TCC	TTT F	793 736 246
794 247	GGA G	GTA V	AC <u>A</u> T	ATA I	AAA K	CCT P	TCG S	AAA K	ATG M	AAA K	CGG R	GGT G	CTC L	CGG R	AGA R	ATA I	ATT I	GTC V	CAT H	GAA E	853 - 1996 266
854 267	AAA K	TAC Y	AÀA K	CAC H	CCA P	TCA S	CAT H	GAC D	TAT Y [	GAT D	ATT I	TCT S	CTT L	GCA A	GAG E	CTT L	TCT S	AGC	CCT P	GTT V	913-85-6
914 287	CCC P	TAC	ACA T	AAT N	GCA A	GTA V	CAT H	AGA R	GTT V	TGT C	CTC L	CCT P	GAT D	GCA A	TCC S	TAT Y	gag E	TTT F	CAA Q	CCA P	973 4
974 307	GGT - G	GAT D	GTG V	ATG M	TTT F	GTG V	ACA T	GGA G	TTT F	GGA` G	GCA A	CTG L	AAA K	AAT N	GAT D	GGT G	TAC Y	AGT S	CAA Q	AAT N	1033 97 % 326
1034 327	CAT H	CTT L	CGA R	CAA Q	GCA A	CAG Q	GTG V	ACT T	CTC L	ATA I	GAC D	GCT A	ACA T	ACT T	TGC C			CCT P	CAA Q	GCT A	1093 1028 346
1094 347	TAC Y	AAT N	GAC D	GCC A	ATA I	ACT T	CCT P	AGA R	ATG M	TTA L	TGT C	GCT A	GGC G	TCC S	TTA L	GAA E	GGA G	AAA K	ACA T	GAT D	1153 <del>109 &amp;</del>
1154 367	GCA A	TGC C	CAG Q	GGT G	GAC D	TCT s	GGA G	GGA G	CCA P	CTG L	GTT V	AGT S	TCA S		GCT					TAC Y	1213 456
1214 387	CTT L	GCT A	GGA G	ATA I	GTG .	AGC !	TGG (	GGA (	GAT D	gaa E	TGT C	GCG	AAA K				CCT (	GGT (	GTT		1273 1 2+8 406
1274 407	ACT	AGA R	GTT V	ACG	GCC :	TTG (	CGG (	GAC !	rgg :	ATT .	ACT T	TCA .	AAA I	ACT (	GGT 1						1336 423
1337	tcat	ggaa	.caga	taac	attť	Ļttt	tgti	tttt	ggg	tgtg	gagg	ccat	tttta	agaga			taa,	igaari	act:	baca	1416
L41.7	aaac																	;		*	1471

#### REPLACEMENT SHEET WITH MARKINGS

 $\Delta$ 

## Fig. 1B

																					· .	*	
	1	tga	cttg	gatg	taga	cctc	gacc	ttca	cagg	actc	ttca	ttgc	tggt	tggc	aatg	ATG M	TAT Y	CGG R	CCA P	GAT D	GTG V	<del>73</del> <del>18</del> 6	
	74 7	GTG V	AGG R	GCT A	AGG R	AAA K	AGA R	GTT V	TGT C	TGG W	GAA E		TGG W		ATC I	GGC G	CTC L	GTC V	ATG)	TTC F	ATA I	1 <del>33</del> <u> </u>	
	134 27	TCC S	CTG L	ATT		CTG L	GCA A	GTG V	TGC C	ATT I	GGA G	Grc	ACT T	GTT V	CAT H	TAT Y	GTG V	AGA R	TAT Y	AAT N	CAA Q	193 <del>42,32</del>	
	194 47	AAG K	AAG K	ACC T	ŤAC Y	AAT N	TAC Y	TAT Y	AGC S	ACA T	TTG L	TCA S	TTT F	ACA T	ACT T	GAC D	AAA K		TAT Y	GCT A	GAG E	253 66	
	254 67	TTT E	GGC G	AGA R	GAG E	GCT A	TCT S	AAC N	AAT N	TTT F	ACA T	GAA E	ATG M			AGA R	CTT L	GAA E	TCA S	ATG M	GTG V	313	
	314 87	AAA K	AAT N	GCA A	TTT F	TAT Y	AAA K	TCT S	CCA P	TTA L	AGG R	GAA E	GAA E	TTT F	GTC V	AAG K	TCT	CAG Q	GTT V	ATC I	ĄAG K	373	
	374 107	TTC F	AGT S	CAA Q	CAG Q	AAG K	CAT H	GGA G	GTG V	TTG L	GCT A	CAT H	ATG M	CTG L	TTG L	ATT I	TGT C	AGA R	TTT F	CAC H	TCT S	433 378.	
	434 127	ACT T	GAG	GAT D	CCT P	GAA E	ACT T	GTA V	GAT D	AAA K	ATT	GTT V	CAA Q	CTT	GTT V	TTA L	CAT H	GAA E	AAG K		ĊAA Q	493 - 47-7- 146	
	494 147	GAT D	GCT	GTA V	GGA G	CCC	CCT P	AAA K	GTA V	GAT D	CCT P	CAC H	_		AAA K						7	553	
	554 167	AÇA T	GAA E	ACA T	GAC D	AGC S	TAT Y	CTÁ L	AAC N	CAT H	TGC C	TGC C	GGA G	ACA T							**	613	
	614 <sup>,</sup> 1.87	CAG Q	AGT S	CTC L	AGG R 📥		GTT V	GGT G	GGG G	ACA T	GAA E	GTA V							_		-	673	
	674 207	•	CTG		•															-		733	
	734 227		AGT S				TGT	TTT	ACA	ACA	TAT	AAG	AAC	CCT	GCC	AGA	TGG	ACT	GCT	TCC	TTT	793-4-7-6	
	794	-	GTA				CCT	F	T AAA	T ATG	Y AAA	K CGG	N	P	A CGG	R	W מידמ	Tunda :	A GTC	S	F	853	
	247	G	V	T	I	K	P	S	K	М	K	R	G	L	R	R -	I	I	V	H	E	266	
	854 267	AAA K	TAC Y	AAA K	CAC H	CCA P	TCA S	CAT H	GAC D	TAT Y	GAT D	ATT I	TCT S	CTT L	GCA A	gag E	CTT	TCT S	AGC S	CCT P	GTT V	913 286	
	914 287	CCC P	TAC Y	ACA T	AAT N	GCA A	GTA V	CAT H	AGA R	GTT V	TGT C	CTC L	CCT P	GAT D	GCA A	TCC S	TAT Y	GAG E	TTT F	CAA Q	CCA P	973 306	
	974 307	GGT G	GAT D	GTG V	ATG M	TTT F	GTG V	ACA T	GGA G	TTT F	GGA G	GCA A	CTG L		AAT N	GAT D	GGT G		AGT S	CAA Q	AAT N	1033	
	034 327	CAT H	CTT L	CGA R	CAA Q	GCA A	ĊAG Q	GTG V	ACT T	CTC L	ATA I	GAC D	GCT A					GAA E	* 4	CAA O		1093	
-	094 . 347	TAC	AAT N	GAC D	-	ATA I										_		GGA	AAA	ACA	GAT	1153.	,
	154 367	GCA A	TGC C			GAC,			GGA	CCA	CTG	GTT	AGT	TCA	GAT	GCT	AGA					366 1213	
1:	214	CTT	GCT	GGA	لل ATA	of G	AGC	пр		GAT	GAA								GGT	GTT	Y TAT	1273	
1:	387 274	L ACT	AGA	G GTT	I ACG	GCC	S TTG	CGG	GAC	TGG	E ATT			K AAA			k atc[				Y agcc	1336	
	107	T	ĸ	V	T	A	L	R	D	W	I.	T	S	K	T .	G .	I	*	8	* .		423	
	337 117															atac	agaa	ttgg	agaa	gact	tgca		
- 4	t al. f	مممر	cagct	ayat	LLGA	cega	CCCC	aata	<u>aa</u> ct	yrtt	gctt	gatg	caaa	aaaa	aaa						,	1471	

#### REPLACEMENT SHEET WITH MARKINGS

### \_\_\_\_\_

# Fig. 1B (con't)

	1	tga	actto	ggatg	rtaga	cctc	gacc	ttca	.cagg	acto	ttca	ttgc	tggt	tggc	aatg	ATG	TAT Y	CGG R	CCA P	GAT D	GTG V	73 6
	74 7	GT0 V	AGG R	GCT A	AGG R	AAA K	AGA R	GTT V	TGT C	TGG W	GAA E	CCC P	TGG W	GTT V	ATC	GGC G	CTC L	GTC V.	ATG M	TTC F	ATA I	133 26
	134 27	TCC S	CTC L	ATT I	GTC V	CTG L	GCA A	GTG V	TGC C	ATT I	GGA G	GTC V		GTT V	CAT H	TAT Y	GTG V	AGA R		AAT N	CAA Q	193 46
	194 47	AAG K	AAG K	ACC T	TAC Y	AAT N	TAC Y	TAT Y	AGC S	ACA T	TTG L	TCA S	TTT F	ACA T		GAC D	AAA K			GCT	GAG E	253 66
	254 67	TTI F	GGC G	AGA R	GAG E	GCT A	TCT S	AAC N	aat N	TTT F	ACA T	GAA E	ATG M	AGC S	CAG Q		CTT L	GAA E	TCA S	ATG M	GTG V	313 86
	314 87	AAA K	AAT N	GCA A	TTT F	TAT Y	AAA K	TCT S	CCA P	TTA L	AGG R	GAA E	GAA E	TTT F	GTC V	AAG K	TCT S	CAG	GTT V	ATC	AAG K	373 106
	374 107	TTC F	AGI S	CAA Q	CAG Q	AAG K	CAT H	GGA G	GTG V	TTG L	GCT A	CAT H	ATG M	CTG L	TTG L	ATT I	TGT C	AGA R	TTT F	CAC H	TCT S	433 126
	434 127	AC'	r gao e	G GAT	CCI P	GA <i>I</i> E	ACT T	GTA V	GAT D	' AAA K	ATT	GTI V	CAA	CTI L	GTT	TTA	CAT	GAA	AAG K	CTC	CAA O	493 146
	494 147	GA' D	r GCI	r GTA V	GGA G	CCC	CCT P	' AAA K	GTA V	GAT D	CCT	CAC	TCA S	GTT V	AAA K	ATT	'AAA K	. AAA K	ATC			553 166
:	554 167	ACI T	A GAZ	A ACA	GAC D	AGC S	TAT Y	CTA L	AÀC N	CAT	TGC	TGC	GGA G	ACA	. CGA	AGA R	AGT					613 186
	614 187	CAC Q	AG1	CTC	ÁGG R 🛕	ATC	GTT V	GGT G	GGG G	ACA T	GAA E	GTA V	GAA E	GAG E					_			673 206
	674 207	AGC S	CTC L	CAG Q	TGG W	GAT D	GGG G	AGT S	CAT H	CGC R	TGT C	GGA G		ACC			٠,	GCC			CTT	733
	734 227	GTG V		GCT	GCT A	CAC	TGT C	TTT F	•		1 :								GCT	TCC		793
•	794 247	GGA G	GTA V	AC <u>A</u>				TCG			•					AGA	ATA	ATT				246 853
	854 . 267	: AAA	TAC	AAA K					*				TCT	CTT	GCA							266 913
	914 287	CCC		ACA							<del>-</del> -	CTC	CCT									286 973
	974 307			GTG V				ACA	GGA	TTT	GGA	L GCA	P	D AAA			Y GGT	E TAC	F AGT	Ω CAA	P AAT	306
	1034 327	-		CGA R	CAA	GCA	CAG	T GŤG	G ACT	F	G ATA	GAC			N ACT	D TGC	G AAT	Y GAA	S	Q CAA	n gct	326 1093
	1094 347	TAC	AAT	GAC	gcc Qcc	A ATA	ACT	CCT	T AGA	L ATG	TTA	D TGT	A GCT	T GGC	TCC	C. TTA	N GAA	E GGA	P AAA	Q :		346 1153
:	1154	GCA	TGC	CAG	GGT	GAC	TCT	e Gga	R GGA	M CCA	L	C.	A	Ģ	S	L	E	G	K	T	D	366 1213
	367 1214	A	۲.	Q GGA	ls.	וייי	S	G	G	Ρ .	L	V	S	S	D	Α.	R	D	I	W-	Y	386
	387 1274	ъ	A		Τ.	V	5	S	G	ט	E	С	A	K	P	N	K	P	G	V	Y	406 1336
	407 1337	•	**	٠.	•	Д	11	K	D	W	Ť	T	S .	K	T	G	I	*				1336 423 1416
	1417			agat													-yaa	r r gg	-yadi	jact.	Lyca	1416
																		1,0				